Author Index of Volume 72

Abouzeid, A.-Z., 105
Agatonovic, R., 193
Alderborn, G., 97
Arnold, P. C., 39, 121, 157

Baron, T., 7
Basesme, E. A., 45
Berrutti, F., 31
Besançon, P., 285
Blank, V., 193
Bush, P. V., 207

Cabrejos, F. J., 51
Cassidy, D. J., 177
Chan, D. Y. C., 255
Chaouki, J., 31
Chastang, J., 285
Chi Tien, 227
Chuangen Zheng, 1
Clift, R., 199

D'Amore, M., 71
Deloye, F. X., 285

Fan, L.-S., 201
Feke, D. L., 113
Finch, J. A., 131
Formisani, B., 71
Frank, M. J. W., 241
Fuerstenau, D. W., 105

Garić, R. V., 183
Gomez, C. O., 131
Gradon, B., 17
Grbavčič, Ž. B., 183
Gu, Z. H., 39, 121, 157
Guo Cun-ji, 101

Hadžismajlović, Dž. E., 183
Holdich, R. G., 77
Hongzhong, Li, 1
Horwatt, S. W., 113
Huang Yue-xiang, 101
Hughes, B. D., 255

Jaraiz, E., 23
Jastrząb, Z., 17
Jean, R.-H., 201
Jennings, B. R., 63
Jovanović, S. Dj., 183

Kapur, P. C., 105
Kavanagh, P. E., 149
Kimura, S., 23
Klinzing, G. E., 51

Lafaye, A., 285
Laguerie, C., 7
Laussmann, P., 277
Levenspiel, O., 23
Levy, E. K., 45
Liffman, K., 255
Lignola, P. G., 71
Lin, D., 131
Littman, H., 183

McLean, A. G., 39, 121, 157
Manas-Zloczower, I., 113
Massimilla, L., 89
Michaelides, E. E., 177
Molenaar, H. J., 241
Morgan III, M. H., 183
Mueller, G. E., 269

Newton, J. M., 97
Nikolic, Z., 193
Nolan, G. T., 149
Nyström, C., 97

Ouwerkerk, C. E. D., 241

Page D. W., 167
Patience, G. S., 31
Poletto, M., 89

Radojevic, B., 193
Raso, G., 71
Rhodes, M. J., 277
Ristic, M. M., 193
Rowlands, N., 131

Scrivens, B. G., 177
Shioji, S., 215
Sinclair, I., 77
Snyder, T. R., 107
Stamatakis, K., 227
Stanmore, B. R., 167
Stöver, D., 223
Suganuma, A., 215

Timofeeva, I., 193
Tokami, K., 215
Tomeczek, J., 17

Vassen, R., 223
Vuković, D. V., 183

Watson, R. M. J., 63
Wen-Ching Yang, 139
Wong, R., 31

Xuereb, C., 7

Yamamoto, H., 215
Yashen Xia, 1

Subject Index of Volume 72

Aerated bunker discharge
of fine dilating powders, 241
Aeration technique
control of bulk flow of granular materials by, 215
Agglomerates
influence of structural heterogeneities on cohesivity and breakup of, in simple shear flow, 113
Air pressure distributions
modelling of, in mass flow bins, 121
Artificial standard material
for liberation analysis, 131

Ball mill grinding
energy split and kinetics of, of mixture feeds in heterogeneous environment, 105
Batch sedimentation calculations
effect of compressible sediment, 227
Blending
experimental study of, of granular materials, 177
Bubble wake
and emulsion phase in two-dimensional gas-fluidized bed; solids exchange between, 45
Bulk density
consolidation-related, and permeability models for bulk solids, 39
Bulk flow
control of, of granular materials by aeration technique, 215
Bulk solids
consolidation-related bulk density and permeability models for, 39
prediction of flowrate of, from mass flow bins with conical hoppers, 157
Buoyancy force
corrected; model equations of Gibilaro and Foscolo with, 201

Circulating fluidized bed risers
scaling considerations for, 31
Cohesivity and breakup
influence of structural heterogeneities on, of agglomerates in simple shear flow, 113
Compaction mechanisms
of ultrafine SiC powders, 223
Compacts
method of evaluating mechanical characteristics of powders from determination of strength of, 97
Computer simulation
of random packing of hard spheres, 149
Copper binary systems
cold sintering of, exposed to shear deformation, 193

Dilating powders
fine; aerated bunker discharge of, 241
Dynamics
of simulated municipal solid waste in rotating device, 139

Elastic modulus
stability analysis of uniformly fluidized beds in terms of, of dispersed phase, 89
Electric birefringence transients
single; polydisperse size data from, 63
Electrical conductivity
measurement of slurry solids content by, 77
Electrostatic precipitator
implications of particulate properties on, and fabric filter performance, 207
Emulsion phase
and bubble wake in two-dimensional gas-fluidized bed; solids exchange between, 45
Energy split and kinetics
of ball mill grinding of mixture feeds in heterogeneous environment, 105

Fabric filter performance
implications of particulate properties on electrostatic precipitator and, 207
Fine particles
vibrating beds of; estimation of interparticle forces from expansion and pressure drop experiments, 23
Flowrate
prediction of, of bulk solids from mass flow bins with conical hoppers, 157
Fluidization
fast; characterizing, by optic output signals, 1
incipient; influence of temperature on properties of particulate phase at, 71
Fluidized bed(s)
circulating; characterizing non-uniformities in gas-particle flow in riser of, 277
circulating, risers; scaling considerations for, 31
formulation of hydrodynamic stability criteria in, 199
gas-: behaviour of horizontal or inclined continuous jets introduced into; modelling of discharge zone developed from jet, 7
lateral diffusion of solids in, with submerged vertical tubes, 17
two-dimensional gas-; solids exchange between bubble wake and emulsion phase in, 45
uniformly; stability analysis of, in terms of elastic modulus of dispersed phase, 89
Force distribution
in two-dimensional sandpile, 255

Gas-particle flow
characterizing non-uniformities in, in riser of circulating fluidized bed, 277
Granular materials
control of bulk flow of, by aeration technique, 215
experimental study of blending of, 177

Hard spheres
computer simulation of random packing of, 149
Hoppers
conical; prediction of flowrate of bulk solids from mass flow bins with, 157

Hydrodynamic modelling
of vertical liquid–solids flow, 183
Hydrodynamic stability criteria
formulation of, in fluidized beds, 199

Incipient fluidization
influence of temperature on properties of particulate phase at, 71
Incipient motion
of solid particles in horizontal pneumatic conveying, 51
Interparticle forces
estimation of, from expansion and pressure drop experiments; vibrating beds of fine particles, 23

Jets
horizontal or inclined continuous, introduced into gas-fluidized bed: behaviour of; modeling of discharge zone developed from jet, 7

Lateral diffusion
of solids in fluidized bed with submerged vertical tubes, 17
Liberation analysis
artificial standard material for, 131
Liquid–solids flow
vertical; hydrodynamic modelling of, 183

Mass flow bins
modelling of air pressure distributions in, 121
prediction of flowrate of bulk solids from, with conical hoppers, 157
Mechanical characteristics
method of evaluating, of powders from determination of strength of compacts, 97
Mixture feeds
energy split and kinetics of ball mill grinding of, in heterogeneous environment, 105
Model equations
of Gibilaro and Foscolo with corrected buoyancy force, 201
Modelling
of air pressure distributions in mass flow bins, 121
of discharge zone developed from jet; behaviour of horizontal or inclined continuous jets introduced into gas-fluidized bed, 7
hydrodynamic, of vertical liquid–solids flow, 183
Models
consolidation-related bulk density and permeability models for bulk solids, 39

Optic output signals
characterizing fast fluidization by, 1

Particle sizes
rectangle rule for; applicability and graphic representation of thinnesses, 285
Particulate phase
influence of temperature on properties of, at incipient fluidization, 71
Particulate properties
implications of, on electrostatic precipitator and fabric filter performance, 207
Permeability
consolidation-related bulk density and permeability models for bulk solids, 39
Pneumatic conveying
horizontal; incipient motion of solid particles in, 51
Polydisperse size data
from single electric birefringence transients, 63

Radial void fraction distributions
in randomly packed fixed beds of uniformly sized spheres in cylindrical containers, 269
Randomly packed fixed beds
radial void fraction distributions in, of uniformly sized spheres in cylindrical containers, 269
Random packing
computer simulation of, of hard spheres, 149
Rectangle rule
for particle sizes; applicability and graphic representation of thinnesses, 285

Sandpile
two-dimensional; force distribution in, 255
Sediment
compressible; effect of; batch sedimentation calculations, 227
Sedimentation
batch, calculations — effect of compressible sediment, 227
and yield stresses in dense flyash slurries, 167
Shear deformation
cold sintering of Cu binary systems exposed to, 193
Shear flow
simple; influence of structural heterogeneities on cohesivity and breakup of agglomerates in, 113
SiC powders
ultrafine; compaction mechanisms of, 223
Simulated municipal solid waste
in rotating device; dynamics of, 139
Simulation
computer, of random packing of hard spheres, 149
Sintering
cold, of Cu binary systems exposed to shear deformation, 193
Size data
polydisperse, from single electric birefringence transients, 63
Slurries
dense flyash; yield stresses and sedimentation in, 167
Slurry solids content
measurement of, by electrical conductivity, 77
Solid particles
incipient motion of, in horizontal pneumatic conveying, 51
Solids content
slurry; measurement of, by electrical conductivity, 77
Solids exchange
between bubble wake and emulsion phase in two-dimensional gas-fluidized bed, 45
simulated municipal, in rotating device; dynamics of, 139
Solid waste
simulated municipal; dynamics of, in rotating device, 139
Stability analysis
of uniformly fluidized beds in terms of elastic modulus of dispersed phase, 89
Structural heterogeneities
influence of, on cohesivity and breakup of agglomerates in simple shear flow, 113
Synthesis
of nanosized zirconia particles via urea hydrolysis, 101

Urea hydrolysis
synthesis of nanosized zirconia particles via, 101

Vibrating beds
of fine particles; estimation of interparticles forces from expansion and pressure drop experiments, 23

Yield stresses
and sedimentation in dense flyash slurries, 167

Zirconia particles
nanosized; synthesis of, via urea hydrolysis, 101